

Title (en)

Power conversion apparatus, photovoltaic module, and photovoltaic system including the same

Title (de)

Leistungsumwandlungsvorrichtung, Photovoltaikmodul und photovoltaisches System damit

Title (fr)

Appareil de conversion de puissance, module photovoltaïque et système photovoltaïque comprenant celui-ci

Publication

EP 2899867 B1 20190417 (EN)

Application

EP 15000159 A 20150121

Priority

- KR 20140008560 A 20140123
- KR 20140015027 A 20140210

Abstract (en)

[origin: EP2899867A2] A power conversion apparatus, a photovoltaic module, and a photovoltaic system including the same are discussed. The power conversion apparatus includes an inverter unit to perform alternating current (AC) voltage conversion based on direct current (DC) voltage from a solar cell module, a controller to control the inverter unit, and a communication unit to add a carrier frequency signal containing predetermined information to the converted AC voltage and output the AC voltage containing the predetermined information to a grid and, when a level of the converted AC voltage is equal to or less than a predetermined level, to add the carrier frequency signal containing the predetermined information to DC voltage and output the DC voltage containing the predetermined information to the grid. Consequently, it is possible to stably transmit information.

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

- US 2011140880 A1 20110616 - GERBER ALLEN [US]
- US 2012212065 A1 20120823 - CHENG GEORGE SHU-XING [US], et al

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EP3462607A1; CN105140955A; EP3471232A1; US10965245B2; US11837992B2; WO2019070121A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 15000159 A 20150121; JP 2015011092 A 20150123; US 201414479120 A 20140905